

7-Day Significant Fire Potential Product

The 7-Day Significant Fire Potential product is a forecast of potential significant fire activity across the Geographic Area through the next seven days based on expected weather and fuel conditions. A “Significant” or “Large” Fire” is defined by size, generally ranging from 50-500 acres depending on the Predictive Service Area. The product contains a table displaying fuel dryness and, when appropriate, significant weather triggers. The product also contains a narrative section consisting of a weather synopsis, a fire potential discussion, and a resource capability summary as defined in the California Mobilization Guide.

1) Fuel Conditions or Fuel Dryness

Fuel Dryness is a function of the Energy Release Component (ERC) combined with either the ten hour (F10) or the one hundred hour (F100) dead fuel moisture. These indices have been correlated to historical fire activity to form three categories of Fuel Dryness, displayed by the following colors in the product:

- Green (Moist Fuels) – Little if any threat for large fires.
- Yellow (Dry Fuels) – Low threat for large fires when a Significant Weather Trigger is absent.
- Brown (Very Dry Fuels) – Moderate threat for large fires when a Significant Weather Trigger is absent.

2) Significant Weather Triggers

Significant Weather Triggers are weather events that either start new fires (Ignition Trigger), or provide favorable conditions (Burn Environment) for rapid growth to occur on existing fires when combined with “Dry” or “Very Dry” fuel conditions. The following is a list of Significant Weather Triggers used in the product.

- Lightning
- Windy and dry
- Unseasonably hot and dry
- Unstable

3) High Risk Day

High Risk Days are rare occasions when conditions exist that historically have yielded in a significantly higher than normal chance ($\geq 20\%$) for a new large fire or for significant growth to occur on existing fires. There are two conditions that would lead to the issuance of a High Risk Day: 1) Ignition Trigger or, 2) A Critical Burn Environment.

- (Red) – Ignition Trigger. Occurs when a “Dry” or “Very Dry” Fuel Dryness category coexists with lightning.
- (Orange) – Burn Environment. Occurs when a “Dry” or “Very Dry” Fuel Dryness category coexists with any of the Significant Weather Triggers other than lightning.

This product is issued by 1030 local time. Predictive Services will notify the appropriate National Weather Service office(s) of the issuance of any High Risk Days.

Webpage location:

South: <http://psgeodata.fs.fed.us/7day/action/forecast/8>

